



Tecumseh

Performance Data Sheet

VSC5536BNA

General Information

Model	VSC5536BNA	Refrigerant	R-410A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)						
	80	90	100	110	120	130	140
-15	Btu/h	11200	10000				
	Watts	1890	2210				
	Amps	10.4	11.3				
	Lb/h	136	128				
-10	Btu/h	13000	11700	10500			
	Watts	1880	2190	2530			
	Amps	10.4	11.3	12.3			
	Lb/h	156	148	140			
-5	Btu/h	14900	13700	12400	11100		
	Watts	1870	2170	2510	2890		
	Amps	10.4	11.3	12.2	13.4		
	Lb/h	178	171	163	154		
0	Btu/h	17200	15800	14500	13100	11600	
	Watts	1860	2150	2490	2860	3280	
	Amps	10.4	11.3	12.2	13.4	14.7	
	Lb/h	203	196	189	180	170	
5	Btu/h	19600	18200	16800	15300	13700	
	Watts	1850	2140	2470	2840	3250	
	Amps	10.4	11.3	12.2	13.3	14.6	
	Lb/h	231	224	217	209	199	
10	Btu/h	22400	20800	19300	17700	16000	14200
	Watts	1850	2130	2450	2810	3220	3680
	Amps	10.4	11.2	12.2	13.3	14.6	16.2
	Lb/h	261	255	248	240	231	219
15	Btu/h	25400	23700	22000	20300	18500	16600
	Watts	1840	2120	2430	2790	3200	3650
	Amps	10.4	11.2	12.2	13.3	14.6	16.1
	Lb/h	294	288	281	274	265	253
20	Btu/h	28600	26800	25000	23200	21200	19200
	Watts	1830	2110	2420	2770	3170	3620
	Amps	10.4	11.2	12.1	13.2	14.5	16.0
	Lb/h	330	324	318	310	302	290

25	Btu/h	32200	30200	28300	26300	24200	22000	19600
	Watts	1830	2090	2400	2750	3140	3590	4100
	Amps	10.3	11.2	12.1	13.2	14.5	16.0	17.8
	Lb/h	369	363	357	350	341	330	316
30	Btu/h	36100	33900	31800	29600	27400	25000	22400
	Watts	1820	2080	2380	2720	3120	3560	4070
	Amps	10.3	11.1	12.1	13.1	14.4	15.9	17.7
	Lb/h	412	405	399	392	383	373	359
35	Btu/h	40300	37900	35600	33200	30800	28200	25500
	Watts	1820	2070	2360	2700	3090	3530	4040
	Amps	10.2	11.1	12.0	13.1	14.4	15.9	17.6
	Lb/h	457	451	444	437	429	418	405
40	Btu/h	44800	42200	39700	37100	34500	31700	28700
	Watts	1810	2050	2340	2680	3060	3500	4000
	Amps	10.1	11.0	12.0	13.0	14.3	15.8	17.5
	Lb/h	506	499	492	485	477	466	453
45	Btu/h	49600	46900	44100	41300	38400	35400	32200
	Watts	1790	2040	2320	2650	3030	3470	3970
	Amps	10.0	10.9	11.9	13.0	14.2	15.7	17.5
	Lb/h	558	551	544	536	528	518	505
50	Btu/h	54800	51800	48800	45800	42600	39400	36000
	Watts	1780	2020	2300	2620	3000	3440	3930
	Amps	9.89	10.8	11.8	12.9	14.2	15.6	17.4
	Lb/h	614	606	599	591	582	572	559
55	Btu/h	60300	57100	53800	50500	47200	43700	40000
	Watts	1760	2000	2270	2590	2970	3400	3890
	Amps	9.75	10.7	11.7	12.8	14.1	15.6	17.3
	Lb/h	673	665	657	649	640	629	616

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.284659E+04	2.792824E+02	1.879401E+00	3.312586E+02
C2	5.876553E+02	1.295577E+01	-1.834365E-02	5.499329E+00
C3	-2.973337E+02	1.640418E+01	1.843867E-01	-3.346518E+00
C4	7.565379E+00	1.135502E-02	-5.734068E-04	6.562809E-02
C5	-1.366977E+00	-2.279594E-01	6.007186E-04	-1.090893E-02
C6	1.789462E+00	-1.817926E-02	-1.623025E-03	3.200331E-02
C7	1.407794E-02	-5.767431E-04	-2.091477E-06	1.204658E-04
C8	-3.241061E-02	2.188499E-04	5.628666E-06	-1.549223E-04
C9	-1.546814E-03	5.833072E-04	-4.473492E-06	9.765122E-05
C10	-6.542017E-03	7.486313E-04	8.138534E-06	-1.276713E-04

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature